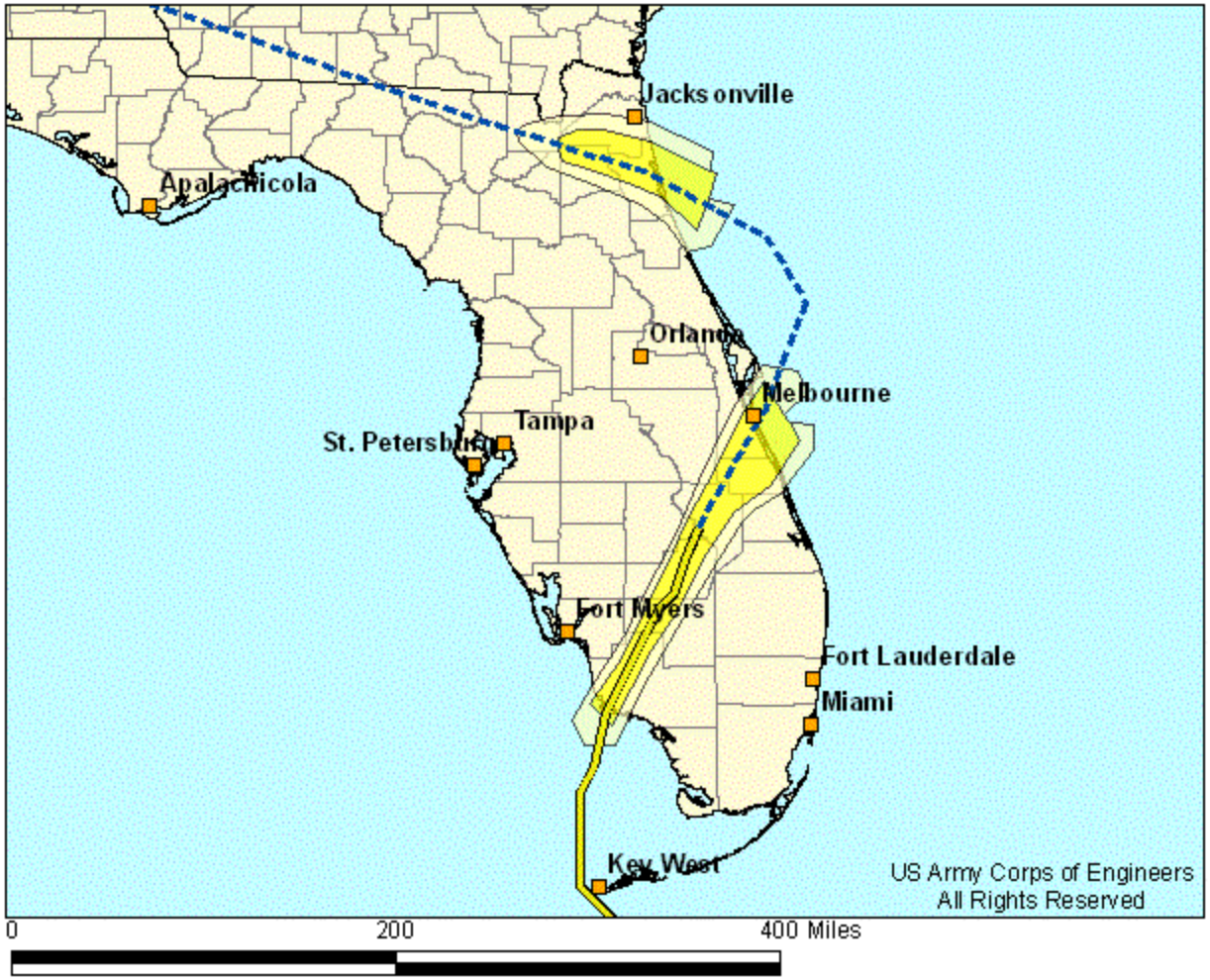
US Army Corps of Engineers

Hurricane Fay Projected Damage Areas

Landfall Plus About 12 Hours

For Planning Purposes Only!



Post Landfall Projected Damage Areas

This model is based on a Category 1 storm making landfall on SW coast, then NEcoast.

Forecast Track
Historic Track

Projected Damage Areas

- CAT 0-type damage
- CAT 1-type damage
- CAT 2-type damage
- CAT 3-type damage
- CAT 4-type damage
- CAT 5-type damage

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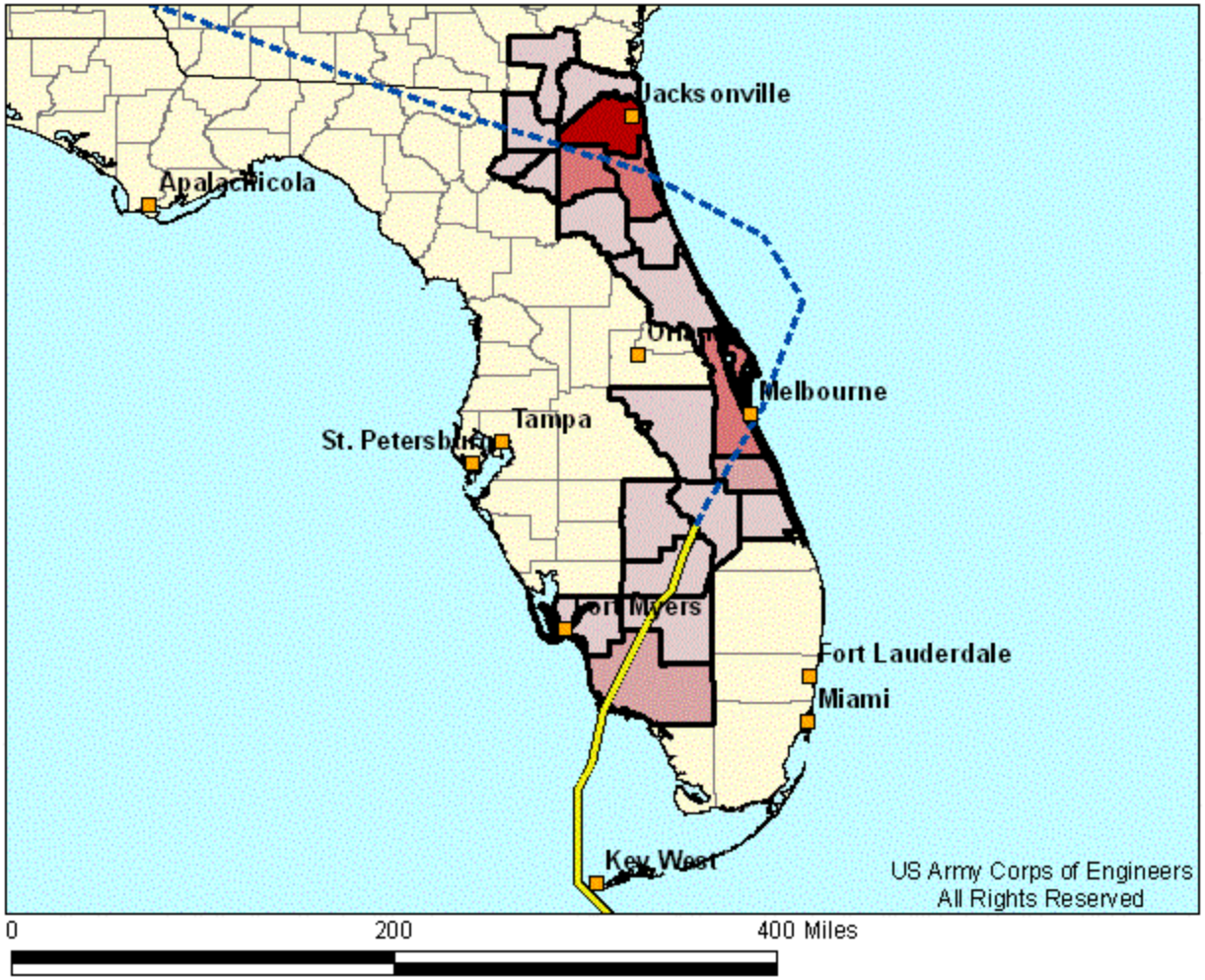
Hurricane Fay Projected Damage Areas	
Generated By: Siemsen, LRL 1730 EDT 08/19/2008	
Sources: HURREVAC LRL-DEBRIS	Page 1 of 13

US Army Corps of Engineers

Hurricane Fay Debris Model

Landfall Plus About 12 Hours

For Planning Purposes Only!



Post Landfall Debris Model Results

Florida - 2,876,000 Yards

Model results per County on following page

This model is based on a Category 1 storm making landfall on SW coast, then NEcoast.

Forecast Track
Historic Track

Debris

- < 100,000 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- >1,000,000 cubic yards

Information provided on this page displays a Category 1 storm making landfall on SW coast, then NEcoast. These projections are based on information from the NHC (1700 EDT 08/19/2008) forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Fay Debris Model	
Generated By: Siemsen, LRL 1730 EDT 08/19/2008	
Sources: HURREVAC LRL-DEBRIS	Page 2 of 13

US Army Corps of Engineers

Hurricane Fay Debris Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	Yards per State	County	Yards per County
Florida		Baker	16,000
		Bradford	3,000
		Brevard	427,000
		Clay	398,000
		Collier	212,000
		Duval	1,232,000
		Flagler	24,000
		Glades	14,000
		Hendry	8,000
		Highlands	6,000
		Indian River	113,000
		Lee	< 1,000
		Nassau	2,000
		Okeechobee	25,000
		Osceola	< 1,000
		Putnam	< 1,000
		St Johns	390,000
		St Lucie	3,000
		Union	< 1,000
		Volusia	3,000
Florida	2,876,000		
Georgia		Charlton	< 1,000
Georgia			

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

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Hurricane Fay Debris Model

Generated By:
Siemsen, LRL 1730 EDT 08/19/2008

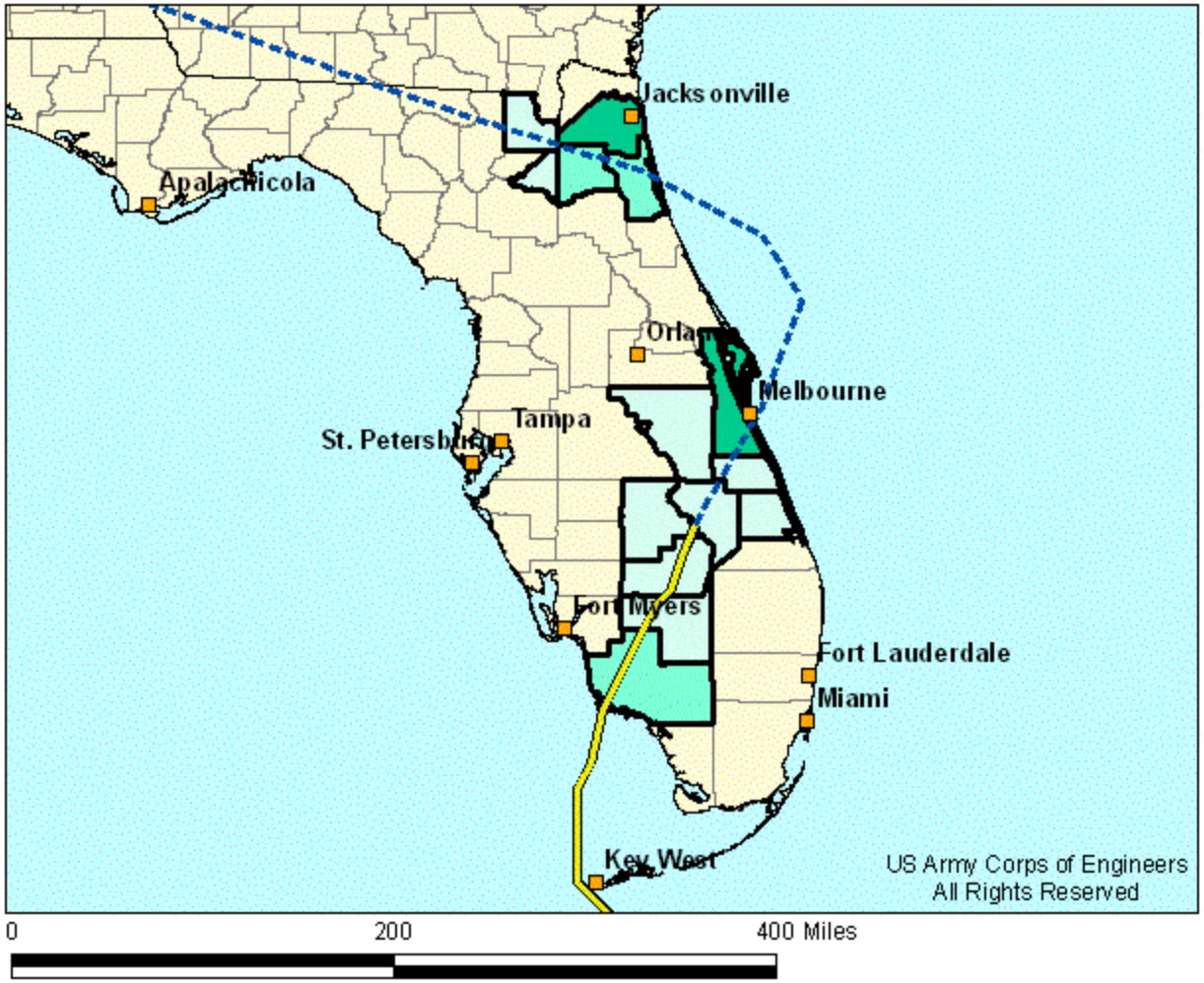
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Fay Commodities Model

Landfall Plus About 12 Hours

For Planning Purposes Only!



Post Landfall Water Model Results

Day One / Day Two / Day Three
Florida – 50/50/54 Truckloads

Model results per County on following page

This model is based on a Category 1 storm making landfall on SW coast, then NE coast.

Forecast Track
Historic Track

Commodities

- < 5 Trucks Each
- 5 - 10 Trucks Each
- 11 - 20 Trucks Each
- 21 - 40 Trucks Each
- > 40 Trucks Each

Information provided on this page displays a Category 1 storm making landfall on SW coast, then NEcoast. These projections are based on information from the NHC ***(1700 EDT 08/19/2008)*** forecast. The amount of commodities forecasted is based on Mission Guide Book requirements and SME input. The graphic represents single day needs with full distribution system in place and operating.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Fay Commodities Model	
Generated By: Siemsen, LRL 1730 EDT 08/19/2008	
Sources: HURREVAC LRL-DEBRIS	Page 4 of 13

US Army Corps of Engineers

Hurricane Fay Commodities Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	Truckloads per State	County	Truckloads per County
Florida		Baker	1
		Bradford	1
		Brevard	11
		Clay	7
		Collier	5
		Duval	14
		Glades	1
		Hendry	1
		Highlands	1
		Indian River	3
		Okeechobee	1
		Osceola	1
		St Johns	6
		St Lucie	1
Florida	54		

The amount of commodities forecasted is based on Mission Guide Book requirements and SME input and the above table indicates suggested needs based on phased deployment of a commodities distribution system.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Fay Commodities Model

Generated By:
Siemsen, LRL 1730 EDT 08/19/2008

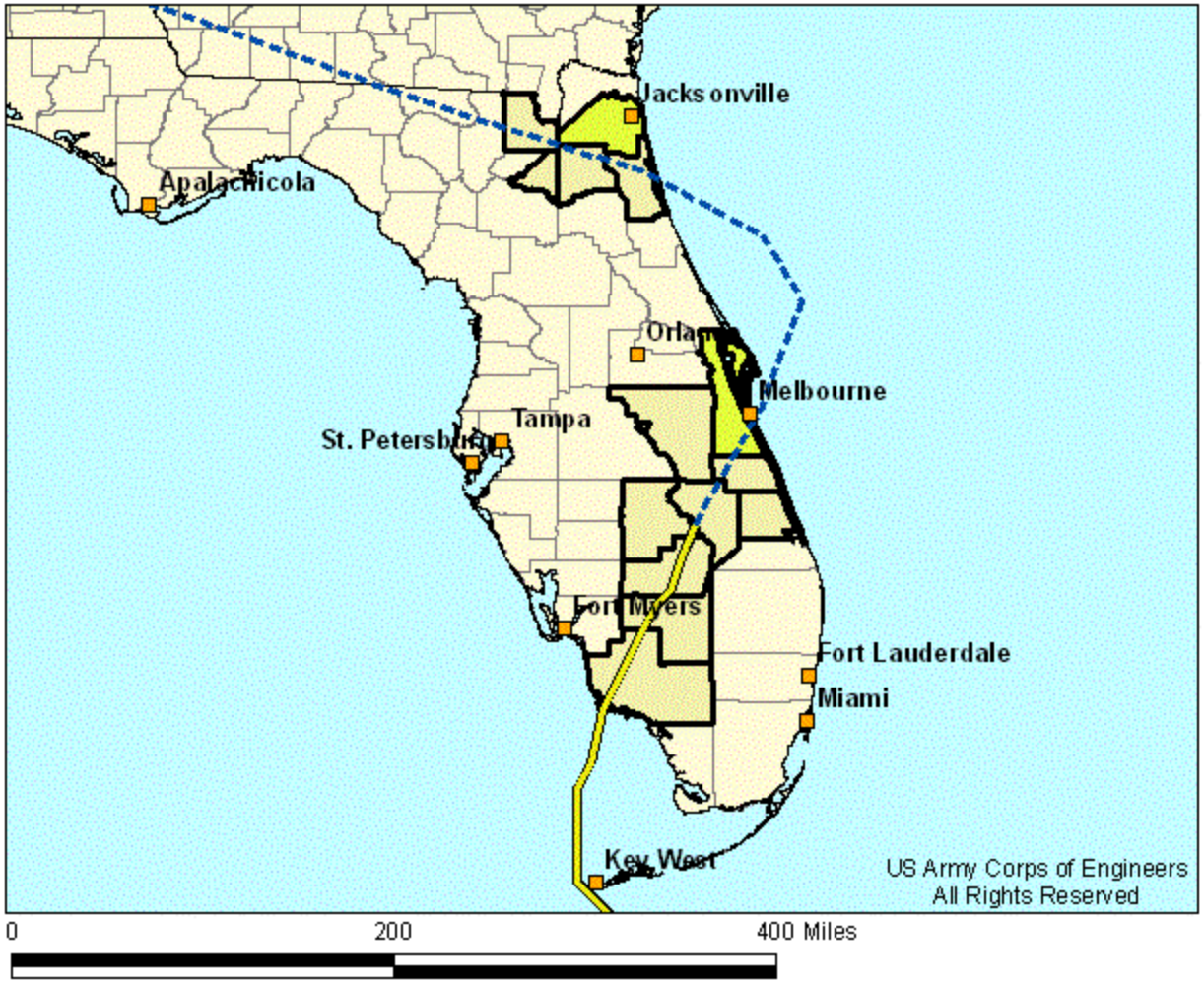
Sources:
HURREVAC
LRL-DEBRIS

Hurricane Fay Temporary Roofing Model

Landfall Plus About 12 Hours

US Army Corps of Engineers

For Planning Purposes Only!



Post Landfall Temporary Roofing Model Results

Florida - 8,700

Model results per County on following page

This model is based on a Category 1 storm making landfall on SW coast, then NEcoast.

Forecast Track
Historic Track

Temporary Roofing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 1 storm making landfall on SW coast, then NEcoast. These projections are based on information from the NHC (1700 EDT 08/19/2008) forecast. Temporary roofing is based on 2% in CAT 1.

Details about this model may be obtained at http://www.englinkusace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Fay Roofing Model	
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Sources: HURREVAC LRL-DEBRIS	Page 6 of 13

US Army Corps of Engineers

Hurricane Fay Temporary Roofing Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	House Units per State	County	House Units per County
Florida		Baker	< 100
		Bradford	< 100
		Brevard	2,300
		Clay	1,200
		Collier	800
		Duval	2,700
		Glades	< 100
		Hendry	< 100
		Highlands	< 100
		Indian River	500
		Okeechobee	< 100
		Osceola	< 100
		St Johns	1,200
		St Lucie	< 100
Florida	8,700		

Temporary roofing is based on 2% in CAT 1.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Fay Roofing Model

Generated By:
Siemsen, LRL 1730 EDT 08/19/2008

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Fay Temporary Housing Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

0 200 400 Miles

Post Landfall Temporary Housing Model Results

None Expected

Model results per County on following page

This model is based on a Category 1 storm making landfall on SW coast, then NEcoast.

Forecast Track
Historic Track

Temporary Housing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 1 storm making landfall on SW coast, then NEcoast. These projections are based on information from the NHC (1700 EDT 08/19/2008) forecast. Temporary housing is based on nothing.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Fay Housing Model	
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Sources: HURREVAC LRL-DEBRIS	Page 8 of 13

US Army Corps of Engineers

Hurricane Fay Temporary Housing Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	House Units per State	County	House Units per County

Temporary housing is based on nothing.

Details about this model may be obtained at http://www.englink.usace.army.mil
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Hurricane Fay Housing Model

Generated By:
Siemsen, LRL 1730 EDT 08/19/2008

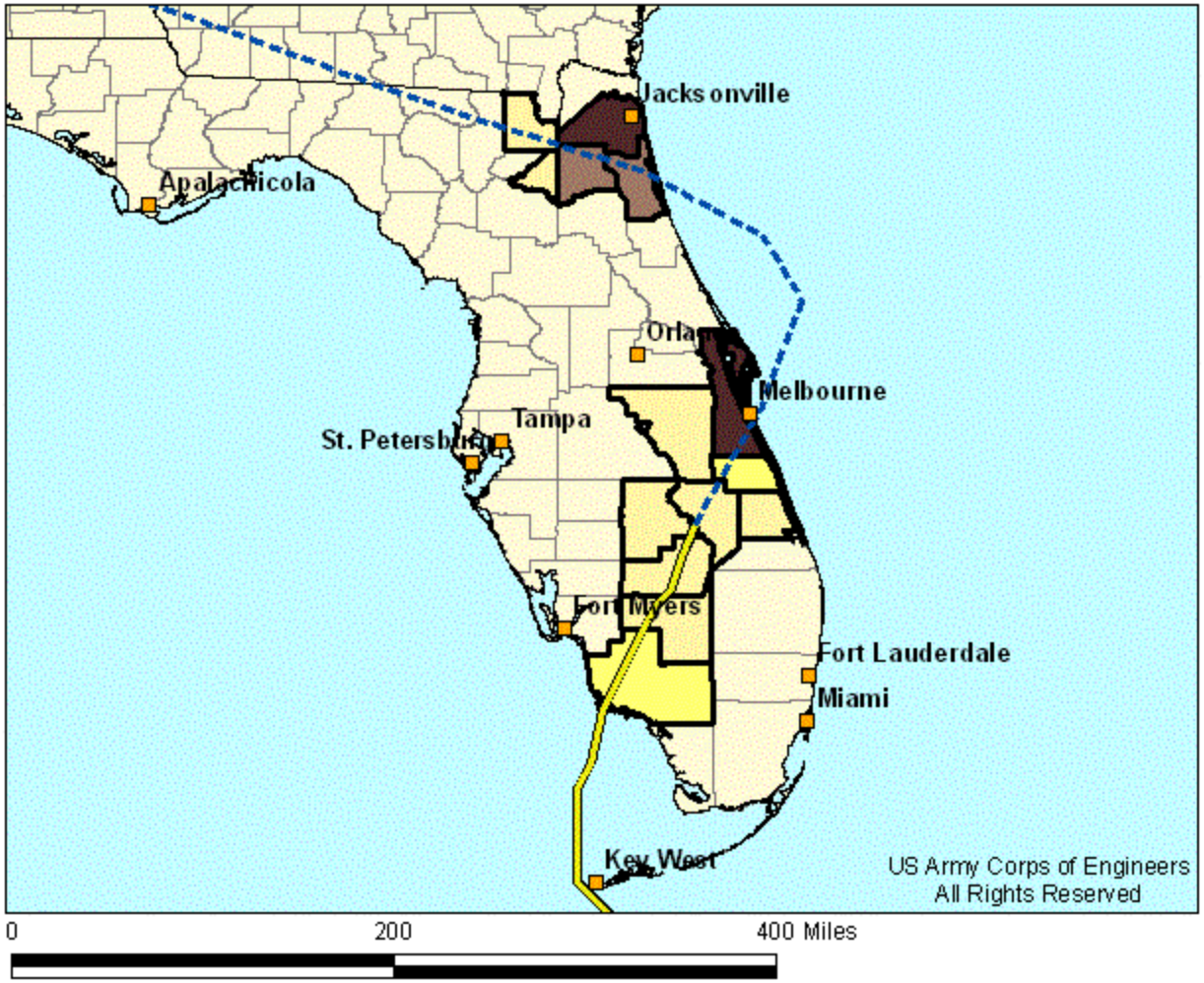
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Fay Population Model

Landfall Plus About 12 Hours

For Planning Purposes Only!



Post Landfall Population Model Results

Florida - 1,073,000

Model results per County on following page

This model is based on a Category 1 storm making landfall on SW coast, then NEcoast.

Forecast Track
Historic Track

Population

- < 25,000 persons
- 25,000 - 99,999 persons
- 100,000 - 174,999 persons
- 175,000 - 249,999 persons
- > 250,000 persons

Information provided on this page displays a Category 1 storm making landfall on SW coast, then NEcoast. These projections are based on information from the NHC (1700 EDT 08/19/2008) forecast. The numbers of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2007 values).

Details about this model may be obtained at http://www.englinkusace.army.mil
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Hurricane Fay Population Model	
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Sources: HURREVAC LRL-DEBRIS	Page 10 of 13

US Army Corps of Engineers

Hurricane Fay Population Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	Population per State	County	Population per County
Florida		Baker	< 1,000
		Bradford	< 1,000
		Brevard	263,000
		Clay	156,000
		Collier	98,000
		Duval	334,000
		Glades	6,000
		Hendry	4,000
		Highlands	3,000
		Indian River	50,000
		Okeechobee	16,000
		Osceola	< 1,000
		St Johns	143,000
		St Lucie	< 1,000
Florida	1,073,000		

The number of persons estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2007 values.

Details about this model may be obtained at http://www.englink.usace.army.mil
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Hurricane Fay Population Model

Generated By:
Siemsen, LRL 1730 EDT 08/19/2008

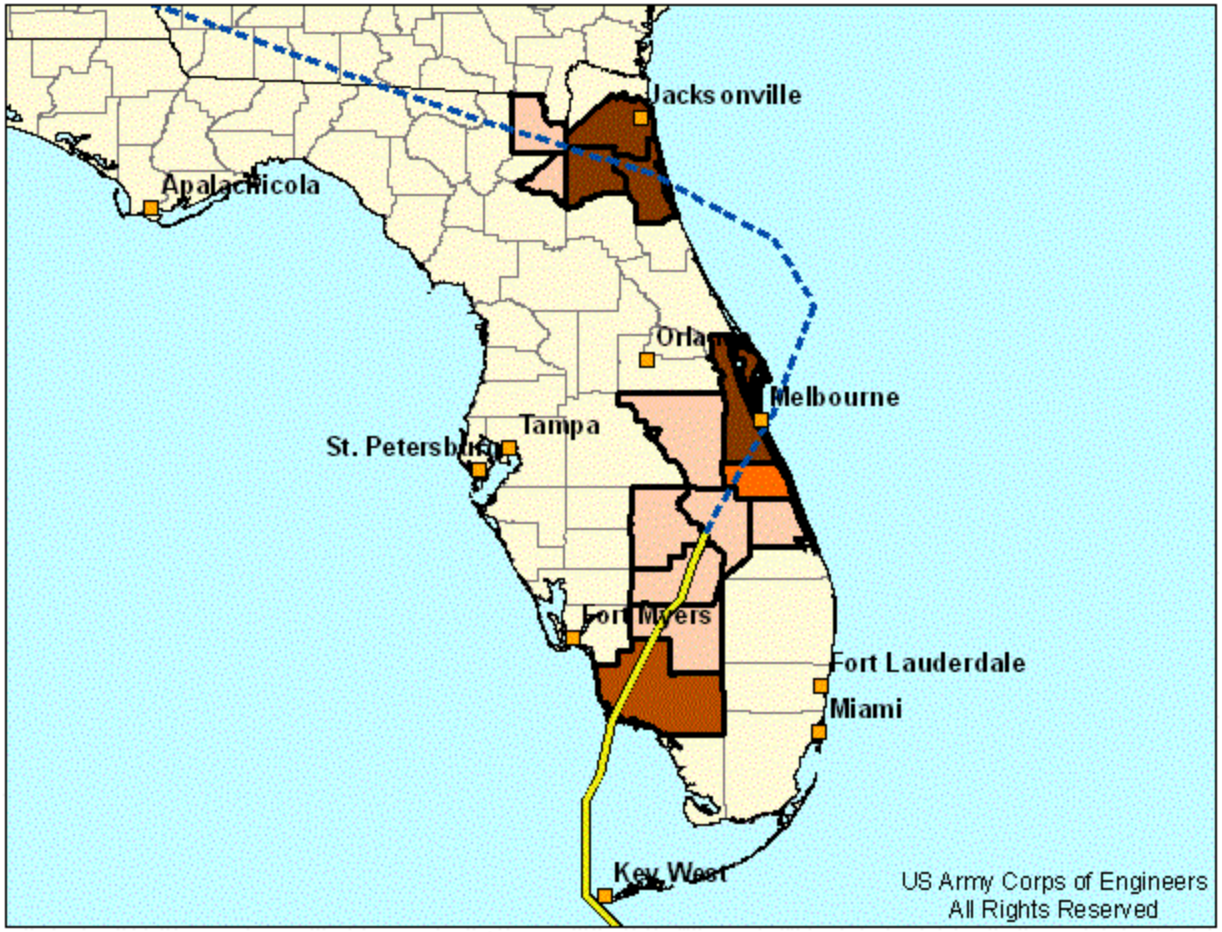
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Fay Households Model

Landfall Plus About 12 Hours

For Planning Purposes Only!



0 200 400 Miles

Post Landfall Households Model Results

Florida - 425,000

Model results per County on following page

This model is based on a Category 1 storm making landfall on SW coast, then NEcoast.

Forecast Track
Historic Track

Households

- < 7,500 households
- 7,500 - 14,999 households
- 15,000 - 24,999 households
- 25,000 - 49,999 households
- > 50000 households

Information provided on this page displays a Category 1 storm making landfall on SW coast, then NEcoast. These projections are based on information from the NHC (1700 EDT 08/19/2008) forecast. The numbers of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2007 values).

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Hurricane Fay Households Model	
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Sources: HURREVAC LRL-DEBRIS	Page 12 of 13

US Army Corps of Engineers

Hurricane Fay Households Model

Landfall Plus About 12 Hours

For Planning Purposes Only!

State	Households per State	County	Households per County
Florida		Baker	< 1,000
		Bradford	< 1,000
		Brevard	111,000
		Clay	56,000
		Collier	37,000
		Duval	133,000
		Glades	2,000
		Hendry	< 1,000
		Highlands	2,000
		Indian River	21,000
		Okeechobee	5,000
		Osceola	< 1,000
		St Johns	58,000
		St Lucie	< 1,000
Florida	425,000		

The number of households estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2007 values.

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Hurricane Fay Households Model

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LRL-DEBRIS